



PRETREATMENT FACILITY INSPECTION REPORT

GENERAL INFORMATION		
Business Name: <i>Lost Coast Brewery</i>		
Address: <i>Sunset</i>		
Date: <i>5-30-18</i>	Time In: <i>9:35</i>	Time Out: <i>9:50</i>
Persons Present During Inspection: <i>David Adams</i>		Title: <i>Inspector</i>
Name:		Title:
Industry Contact Name: <i>Eric Campbell</i>		Title: <i>Manager</i>
Inspection Type: (A) Scheduled (B) <input checked="" type="checkbox"/> Unscheduled (C) Emergency (D) Pretreatment Division Monitoring (E) Self-Monitoring		
INSPECTION SUMMARY		
<p><i>Prepared: Hand deliver Notice of Violation for solids release. Informed that pH probe in tank 2 is up and running with automatic neutralization feed. Tom Campbell stated that they have to feed in the mornings usually and are monitoring level and manually adding sodium bicarbonate.</i></p> <p><i>Eric stated he would send pH records and truck pumping receipts with response to NDO.</i></p>		
SIGNATURES		
Inspector: <i>[Signature]</i>	Industry Contact: <i>[Signature]</i>	



PRETREATMENT FACILITY INSPECTION REPORT

GENERAL INFORMATION

Business Name:	Lost Coast Brewery		
Address:	1600 Sunset Dr.		
Date:	5-17-18	Time In:	12:10
		Time Out:	13:30
Persons Present During Inspection:	David Adams - Inspector		
Name:	Eric Campbell	Title:	Production Supervisor
Industry Contact Name:	James Marzullo	Title:	Assistant Manager
Inspection Type:	(A) Scheduled (B) Unscheduled (C) Emergency (D) Pretreatment Division Monitoring (E) Self-Monitoring		

INSPECTION SUMMARY

Purpose: To determine if flow ceases completely when valves turned to off for batch discharge.

Findings: Showed up and noticed large amount of solids in flume. Eric stated he opened valve at the bottom of tank #2 and there must have been accumulated solids built up. Told him not to discharge anymore until I made notifications to other City staff. Called Daniel Vit & Michael Hansen. Lost Coast was at or near holding capacity in pH adjustment system. City Staff determined solids had already reached Hilfiker lift station. Lost Coast was authorized to drain effluent from third tank to remove solids from line while City flushed sewer system to lift station. Dan Vit had told Eric he needed to order a pump truck to pump solids from 2nd tank. A roto roller truck showed up about 2:15pm. The 2nd tank initially was opened from the bottom to help gain capacity for next batch discharge. Batch discharge due to pH issues.

SIGNATURES

Inspector: *[Signature]* Industry Contact:





CITY OF EUREKA
PUBLIC WORKS DEPARTMENT

531 K Street • Eureka, California 95501-1146 • Fax 707-441-4202
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PCA INSPECTION
LOST COAST BREWERY
1-30-18

At 1:30pm on January 30, 2018 City of Eureka Source Control conducted a joint inspection of Lost Coast Brewery with EPA Contractors as part of the Pretreatment Compliance Audit. The EPA Contractors were Danny O Connell, Senior Compliance Specialist for PG Environmental, and Stephen Clark, Environmental Scientist for PG Environmental. We met with Eric Campbell, Production Supervisor, and during the inspection owner Barbara Groom introduced herself to us as well. We started the inspection by looking at the pretreatment system. Industrial wastewater from the brewery production and Clean in Place (CIP) technologies enters a sump located outside the northwest corner of the facility. There are two pumps in the sump to transfer the wastewater to the first of three equalization tanks. Only one pump is usually necessary and there is a float that triggers the second to kick on if the level in the sump starts to rise too much. Having two enables maintenance and replacement to occur as well. Eric explained that each pump was being coated for protection. A back-up generator is utilized when the power goes out to ensure flow continues from the sump and the pretreatment system continues to operate. There are two pH probes that monitor the system. One is located in the first tank and a second is located in the final tank. The first was broken and Eric informed us a new one was expected the following day. Eric explained that Lost Coast had experienced some violations early on in production because the pH neutralizing equipment was set to turn on at 5.1 std. units and could not neutralize fast enough. Now the set-point is 6.0 std. units which enables the system to neutralize before violating the lower pH limit of 5.0. When the set-point is triggered, sodium hydroxide is injected into the first tank. There is mixing of the water in the first two tanks by aeration. The aeration in the second tank is kept off for energy conservation until the need arises. Danny O'Connell climbed up and peered into the tanks. He stated that the aeration creates a thorough mixing. He also stated that there is a fall from the inlet in the final tank to the water level which was about a third of the height of this tank. This extra volume capacity can act as a buffer to incoming flows if a problem is detected. A ball valve on the exit pipe is kept at a fixed location to prevent flow exceedances. The setting was determined in January 2016 with help from Source Control after a previous violation of maximum flow had occurred. The pH probes are calibrated in house monthly. We took a brief inspection of the brewhouse operations. Danny O'Connell asked about the CIP technologies. A portion of the wastewater is cycled back and more chemicals added automatically to re-use portions of the CIP water thus sending less down the drain. Periodically the entire CIP water is discharged and process started fresh. One item to follow up on is to get a copy of an SOP for the pH neutralization/pretreatment system. Eric was asked if Lost Coast Brewery had one and he stated he thought so but needed to try to locate it.

David Adams
Source Control Inspector II

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Lost Coast Brewery Sunset Annual Pretreatment Inspection 1-8-2018

At 10:00 am on January 8, 2018 I arrived for an announced inspection of the Lost Coast Brewery located at 1600 Sunset Drive. I met with Eric Campbell, Production Supervisor (During the inspection he called himself General Manager and his business card says Production Supervisor). We started by taking a look at the pretreatment system which is located outside in the rear of the facility. All wastewater is collected from each location in the production process from drain lines in the equipment and trench drains in the floor. This water is piped to a sump. The pretreatment system is comprised of three equalization tanks in series that are fed from the sump. There is a chemical feed system which adds sodium hydroxide to the first two tanks to adjust the pH to an acceptable level prior to discharge. There is a valve after the third tank which has been set and left in a position as to not allow flow above the permitted level. There is also a pallet of sodium bicarbonate sacks located just inside the nearest door in the case that the system gets overwhelmed or stops functioning properly. The sodium bicarbonate can be dumped in manually at the top of the tanks. Next we moved inside and Eric walked me through the brewing area and explained the different processes involved in brewing. The solid waste produced in the form of spent grains, hop and yeast is recycled for use as livestock feed. Solids are screened and spun for separation at different stages and ultimately the beer is sent through a centrifuge to remove the yeast and other solids after the fermentation vessels. Eric explained that the brewery is producing 70,000 barrels per year. Production is higher in the summer months and lower in the winter months because of demand. We walked through the bottling and canning areas and Eric explained how the different equipment operates. Everything is fully automated. The cleaning of the different types of production equipment is done with Clean in Place (CIP) technologies. While the bottles are cleaned with water, the cans are sterilized with ionized air to eliminate the use of water from that portion of the production line. Eric next showed me the chemical storage area located outside adjacent to the boilers. The chemical storage area has no drains but there is access to a storm drain nearby if a large leak or spill were to take place. Eric explained they would boom off the spill to isolate and keep it from the storm drain. There were no signs of any leaks or spills and all containers were labelled and appeared in good shape. We concluded the inspection and we discussed that I would send him a copy of the current permit and the Accidental Slug Discharge Plan that is on file. I asked that he review the plan and update it to reflect the current processes and chemicals used on site. I also informed him that the permit specified Lost Coast Brewery needed to have a spill prevention/response plan of which is not currently in the file. Requirements for each plan are listed in the permit. He stated that they had one and that he would send it to me along with the updated accidental slug discharge plan.

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PRETREATMENT FACILITY INSPECTION REPORT

GENERAL INFORMATION

Business Name: Lost Coast Brewery
Address: Sunset
Date: 1-8-18 Time In: 10:00 Time Out: 11:00
Persons Present During Inspection: David Adams Title: Source Control Inspector
Name: _____ Title: _____
Industry Contact Name: Eric Campbell Title: General Manager
Inspection Type: ☒ (A) Scheduled (B) ☐ (B) Unscheduled (C) ☐ (C) Emergency (D) ☐ (D) Pretreatment Division Monitoring (E) ☐ (E) Self-Monitoring

INSPECTION SUMMARY

Purpose: Annual pretreatment inspection

70,000 Barrels/yr.

Eric showed me around for a full tour.

- pretreatment system
- bottling/canning lines
- chemical storage
- Brewing process

Everything looks well kept and in order.
Thank you!

Will e-mail copy of permit, slag discharge plan
for review.

Need to have updated slag discharge plan/chemical inventory
and copy of spill prevention/response plan.

SIGNATURES

Inspector: _____

Industry Contact: _____

David Adams

To: ecampbell@lostcoast.com
Subject: City of Eureka Inspection-Spill prevention/response plan
Attachments: LOST COAST BREWERY SUNSET.pdf; Slug Discharge #2 Sunset.rtf

Hello Eric,

Thank you for meeting with me today and giving me a tour of the facility. All that equipment and automation is impressive. As we discussed, I have attached a copy of current Wastewater Discharge Permit #133 and the Accidental Slug Discharge Plan. Please update the latter and the chemical inventory and get them back to me. I also need a copy of Lost Coast Brewery's spill prevention/response plan. The requirements are listed in the permit. Please include the training documentation. If you can get them to me by the end of the week that would be great.

Regards,
David Adams
Source Control Inspector II
City of Eureka
(707) 441-4362

INSPECTION REPORT

Lost Coast Brewery 1/26/16

On January 26th 2016, Clay and I visited Lost Coast Brewery to meet with Eric Campbell about Flow and pH violations that had occurred in the month of January 2016. We entered the facility at 1400.

- 1) We reviewed the treatment system currently in operation at the site, and proposed an ongoing experiment to control flows. We had Eric Campbell open the discharge valve from the 3rd settling tank to specific 'valve notches', while we waited on the flume end to visualize the flow coming out. We communicated the changes using cell phones. The flow readings were recorded constantly by the HACH unit in place at the flume, and we settled on a 2.5 notch opening for continuous discharge of the 3rd tank. The 2.5 notch allowed for a ~225 GPM discharge of a tank of ~half capacity. We expect that if the discharge valve on the 3rd tank is not moved from this position, there will be no more flow violations recorded at the flume. Lost Coast Brewery will operate the system in this way for (2) weeks, to determine if the violation issues have been resolved by this modification. A follow up meeting will be scheduled at that time to discuss the results.
- 2) Eric adjusted his pH chemical feed to allow more caustic soda addition to the tanks. The reading at the flume was consistently above 6.0 with the new adjustment, which is in range of compliance. This was consistent for the duration of our modifications. We left at 1500.

*A meeting will be held the week of Feb 8th to discuss the results of this experiment, and formalize the future operation requirements of Wastewater Discharge at Lost Coast Brewery.

Marty Felperin

Source Control Inspector